SYSTEM/POINT DESCRIPTION **DEVICE TYPE EXHAUST FAN** Exhaust Fan Start/Stop Relay - Equipment Start/Stop Relay - Equipment Status (Current) Exhaust Fan Status 1. FIELD VERIFY EXACT QUANTITIES OF DEVICES 2. AN "x" UNDER THE LABEL COLUMN DENOTES AN INDIVIDUAL EQUIPMENT NUMBER 3. BI=BINARY INPUT, BO=BINARY OUTPUT, AI=ANALOG INPUT AO=ANALOG OUTPUT, SW=SOFTWARE POINT, COV=CHANGE OF VALUE

EXHAUST Sequence EXHAUST FAN CONTROL
THE EXHAUST FANS SHALL RUN CONTINUOUSLY.

J	INTEGRAL WITH EQUIPME	TEGRAL WITH EQUIPMENT MR PER MA				R'S	RE	REVERSI	NG				DRIVE	
С	COMBINATION STARTER AND			RECOMMENDATION			RV	REDUCED VOLTAGE			2S	TWO SPEED		
	SAFETY SWITCH N		NF	NON-FUSED		SF	FUSE HOLDER WITH SWITCH			3S		THREE SPEED		
СВ	CB CIRCUIT BREAKER NR			NON-REVERSING			SS	SAFETY SWITCH						
FV	FULL VOLTAGE N1			NEMA 1			SH	HP RATED SWITCH						
FLA	FULL LOAD AMPS 3R NEMA 3R ST THERMAL ELEM. SWITCH													
				RE	FER TO SPE	CIFICATIO	NS FOR A	DDITIONAL	. REQUIR	EMENTS				
			RATING		DISCONNECT					MOTOR STARTER			NAMEPLATE	
MARK	DESCRIPTION	LOAD	V	PH	FURNISH/ INSTALL BY	TYPE	RATING (AMPS)	FUSE SIZE	ENCL.	FURNISH/ INSTALL BY	TYPE/ NEMA SIZE	ENCL.	MINIMUM SCCR (AMPS)	REMARK
EF-2	EXHAUST FAN	3/4 HP	120	1	E/E	SH	20	MR	3R	M/M	_	_	,	1
	EXCLUSION FAMI	1 4/4 1.15	100	1 .	l – .–	1 0	1 00	1	1 00	5.4/5.4				
EF-3	EXHAUST FAN	1/4 HP	120	1	E/E	SH	20	MR	3R	M/M	-	-		1

MECHANICAL / ELECTRICAL COORDINATION SCHEDULE

ABBREVIATION:

4X NEMA 4X

PH PHASE

VOLTAGE

VARIABLE FREQUENCY

- VERIFY/COORDINATE ALL RATINGS FOR EQUIPMENT. WHERE SUCH RATINGS ARE OTHER THAN THAT INDICATED ON MECHANICAL/ELECTRICAL COORDINATION SCHEDULE, PROVIDE DISCONNECTS, MOTOR STARTERS, OVERCURRENT DEVICES AND RELATED REVISIONS ACCORDINGLY. WHERE EQUIPMENT IS PROVIDED WITH RATINGS OTHER THAN THAT INDICATED, CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND ASSOCIATED COSTS FOR REVISIONS.
- PROVIDE FRACTIONAL HORSEPOWER MOTORS WITH INTEGRAL OVERLOAD PROTECTION.

HP HORSEPOWER

KW KILOWATTS

- EQUIPMENT LISTED IN SCHEDULE MAY APPEAR IN NUMEROUS LOCATIONS. EQUIPMENT MARKS ARE DESIGNATED BY UNIQUE IDENTIFIERS ON THE PLANS; I.E., HP-1.1, HP-1.2. IN THESE INSTANCES, THE ELECTRICAL REQUIREMENTS DO NOT CHANGE FROM ONE MARK TO THE NEXT, ONLY THE UNIQUE IDENTIFIER CHANGES.
- HORSEPOWER RATED SWITCHES (SH): FOR 120 V MOTORS LESS THAN 1/2 HP, PROVIDE FUSEHOLDER WITH SWITCH, FUSED PER MANUFACTURER'S RECOMMENDATION AND NEC REQUIREMENTS. FOR 120 V MOTORS RATED 1/2 HP OR 3/4 HP, PROVIDE HP RATED TOGGLE SWITCH (WHERE BRANCH CIRCUIT OVERCURRENT DEVICE MEETS NEC REQUIREMENTS FOR SHORT-CIRCUIT PROTECTION) OR FUSED SAFETY SWITCH.

E ELECTRICAL CONTRACTOR

M MECHANICAL CONTRACTOR

PROVIDE EXHAUST FAN MOTOR FACTORY-WIRED TO WEATHERPROOF JUNCTION BOX INTEGRAL WITH FAN. ELECTRICAL CONTRACTOR TO PROVIDE WEATHERPROOF HORSEPOWER RATED SWITCH (SEE GENERAL NOTES ABOVE).

EXHAUST FAN SCHEDULE											
MARK	SERVES	TYPE	CFM	EXT. S.P.	FAN RPM	DRIVE	MAX SONES	VARIABLE CONTROL	MANUFACTURER & MODEL NO.	REMARKS	
EF-2	EQUIPMENT ROOM	ROOF MOUNTED CENTRIFUGAL UPBLAST	1550	0.75	1725	DIRECT	17	NONE	GREENHECK CUE-131-A	1-5	
EF-3	ETO	ROOF MOUNTED CENTRIFUGAL UPBLAST	850	0.75	1725	DIRECT	10.6	NONE	GREENHECK CUE-101-A	1-5	

- SEE MECHANICAL/ELECTRICAL COORDINATION SCHEDULE FOR ELECTRICAL DATA.
- PROVIDE 14" CURB AND BIRDSCREEN.
- FAN SHALL BE OF NON-FERROUS, SPARK-PROOF CONSTRUCTION.
- CENTRIFUGAL FAN WITH BACKWARD INCLINED WHEEL. MOTOR SHALL BE MOUNTED OUT OF THE AIRSTREAM ON VIBRATION ISOLATORS.

REGISTER - GRILLE - DIFFUSER SCHEDULE												
MARK	FUNCTION	TYPE	CFM RANGE	MAX N.C.	SIZE (INCHES)	BORDER OR FRAME	MATERIAL ALUM. STEEL		FINISH	ACCESS.	MANUFACTURER & MODEL NO.	REMARKS
E-1	EXHAUST	FIXED DEFL. 45° BLADE	150-200	25	10 X 8	SURFACE MOUNT	Х		STND. WHITE		PRICE SERIES 630/F/L/0	1-4
E-2	EXHAUST	FIXED DEFL. 45° BLADE	700	25	14 X 14	SURFACE MOUNT	Х		STND. WHITE		PRICE SERIES 630/F/L/0	1-4
E-3	EXHAUST	FIXED DEFL. 45° BLADE	700	25	12 X 12	DUCT MOUNT	Х		STND. WHITE		PRICE SERIES 630/F/L/0	1-4
S-1	SUPPLY	24" SQUARE PANEL	200	25	8" Ø NECK	LAY-IN	Х		STND. WHITE		PRICE SERIES SCD-4C	1-3
T-1	TRANSFER	FIXED DEFL. 45° BLADE	2000	25	28 X 20	SURFACE MOUNT	Х		STND. WHITE		PRICE SERIES 630/F/L/0	1-4

PROVIDE SPECIFIC NOISE CRITERIA (NC) DATA FOR EACH LINE ITEM WITH SHOP DRAWINGS.

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- COORDINATE BORDER OR FRAME TYPE WITH CEILING TYPE. SEE ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE FINISH WITH ARCHITECT.
- 4. PROVIDE UNIT WITH CONCEALED SCREWHEAD FASTENING METHOD.

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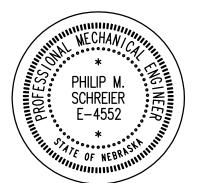
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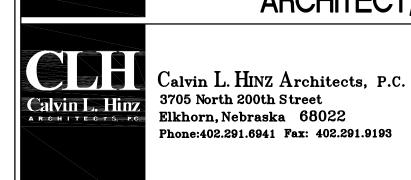
prohibited.

IMPORTANT CONTRACTOR'S

ALL CONTRACTORS ARE RESPONSIBLE FOR REVIEWING ENTIRE SET OF DOCUMENTS TO DETERMINE THEIR FULL SCOPE OF WORK. CONTRACTOR SHALL NOT BE ALLOWED EXTRA COSTS DUE TO FAILURE TO REVIEW ENTIRE SET OF DOCUMENTS. 2. ANY USE OF THESE ELECTRONIC DRAWINGS OR SCALING OF THE PRINTED DOCUMENTS ARE DONE SO AT THE CONTRACTORS RISK.









ARCHITECT/ENGINEERS:

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MECHANICAL SCHEDULES AND CONTROL DIAGRAMS

Drawing Title

Approved: Project Director CONSTRUCTION DOCUMENT (CD-3) SUBMITTAL 100% GARY STUCKENSCHMIDT **APRIL 13, 2012** 

Project Number 636-12-105B OMAHA PACKAGE ONE CORRECT NWIHCS SPD DEFICIENCIES-**Building Number** VA OMAHA DIVISION ONE Location Drawing Number VAMC Omaha, NE Checked Drawn APRIL 13, 2012

Office of Construction and Facilities Management

